#include <iostream>

#include <time.h>

#include <math.h>

#include <string>

#include <stdio.h>

#include <vector>

#include <stdlib.h>

using namespace std;

bool isPrime(int);

int main()

{

vector<int> my\_vec;

int k =1;

for(int i = 0; i < 150000; i ++)

{

if(isPrime(i)== true)

{

cout<<k<<"."<<i<<endl;

k++;

my\_vec.push\_back(i);

}

}

cout<<my\_vec[0]<<endl;

cout<<my\_vec[10000]<<endl;

}

bool isPrime(int num)

{

if (num < 2) // numbers less than 2 are a special case

return false;

bool checkPrime = true; // change here

int limit = sqrt(num);

for (int i = 2; i <= limit; i++)

{

if (num%i == 0)

{

checkPrime = false;

break;

}

}

return checkPrime;

}